



# 20 ug/mL Proteinase K

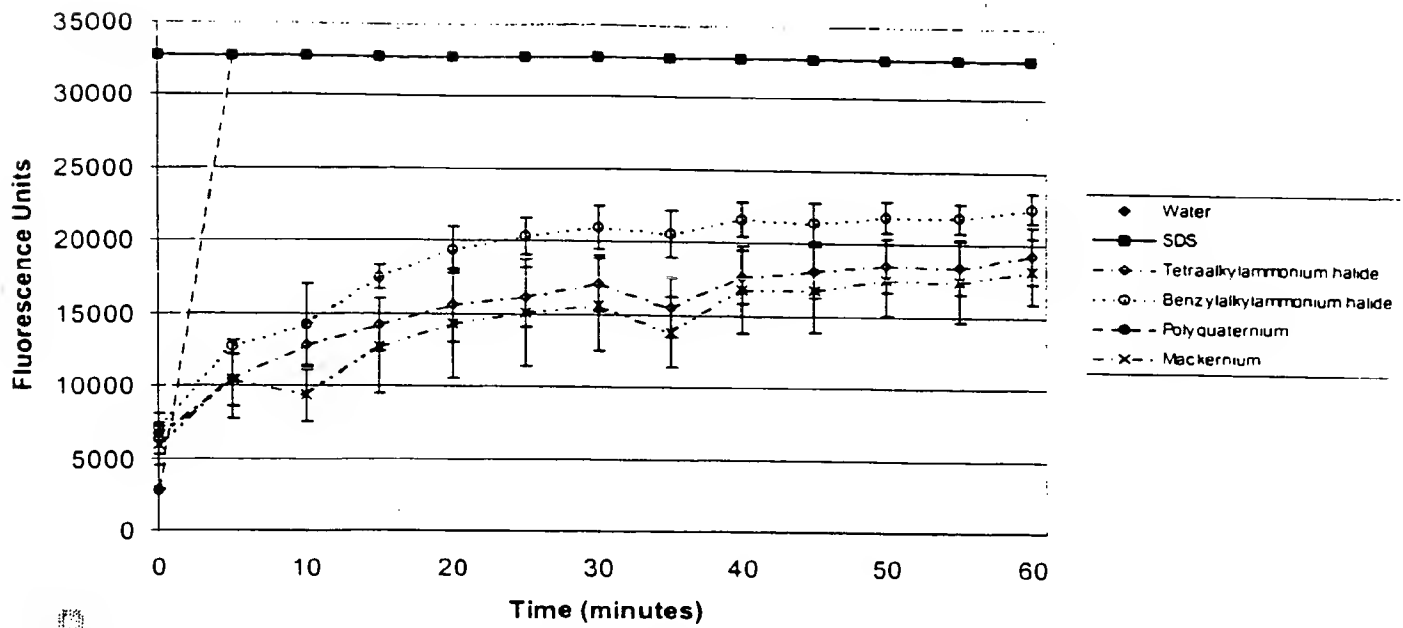


Figure 2A

# 2.5 ug/mL Proteinase K

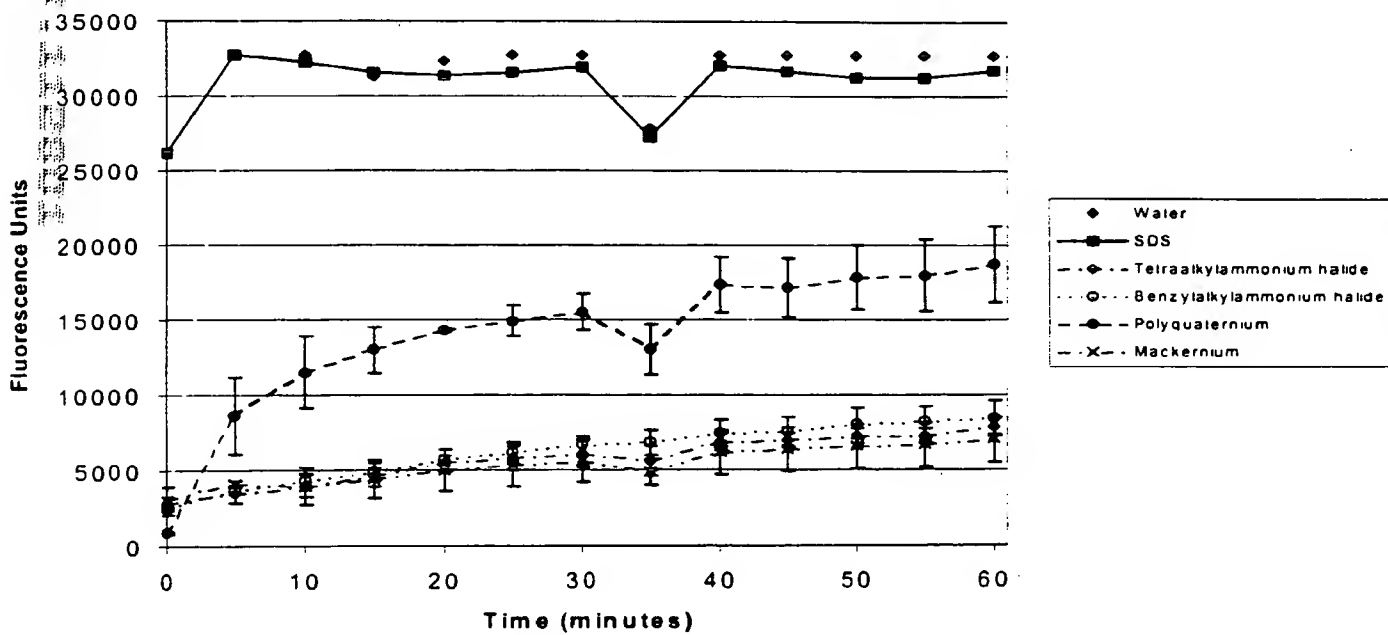


Figure 2B

1.25 ug/mL Proteinase K

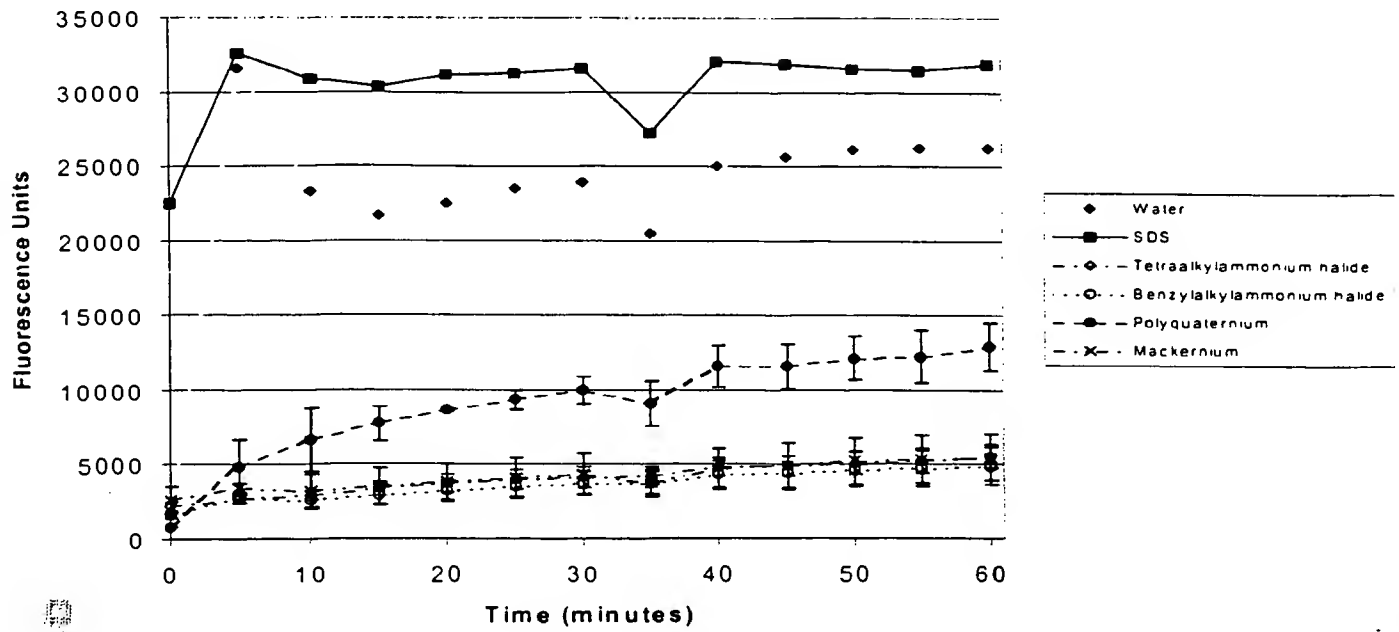
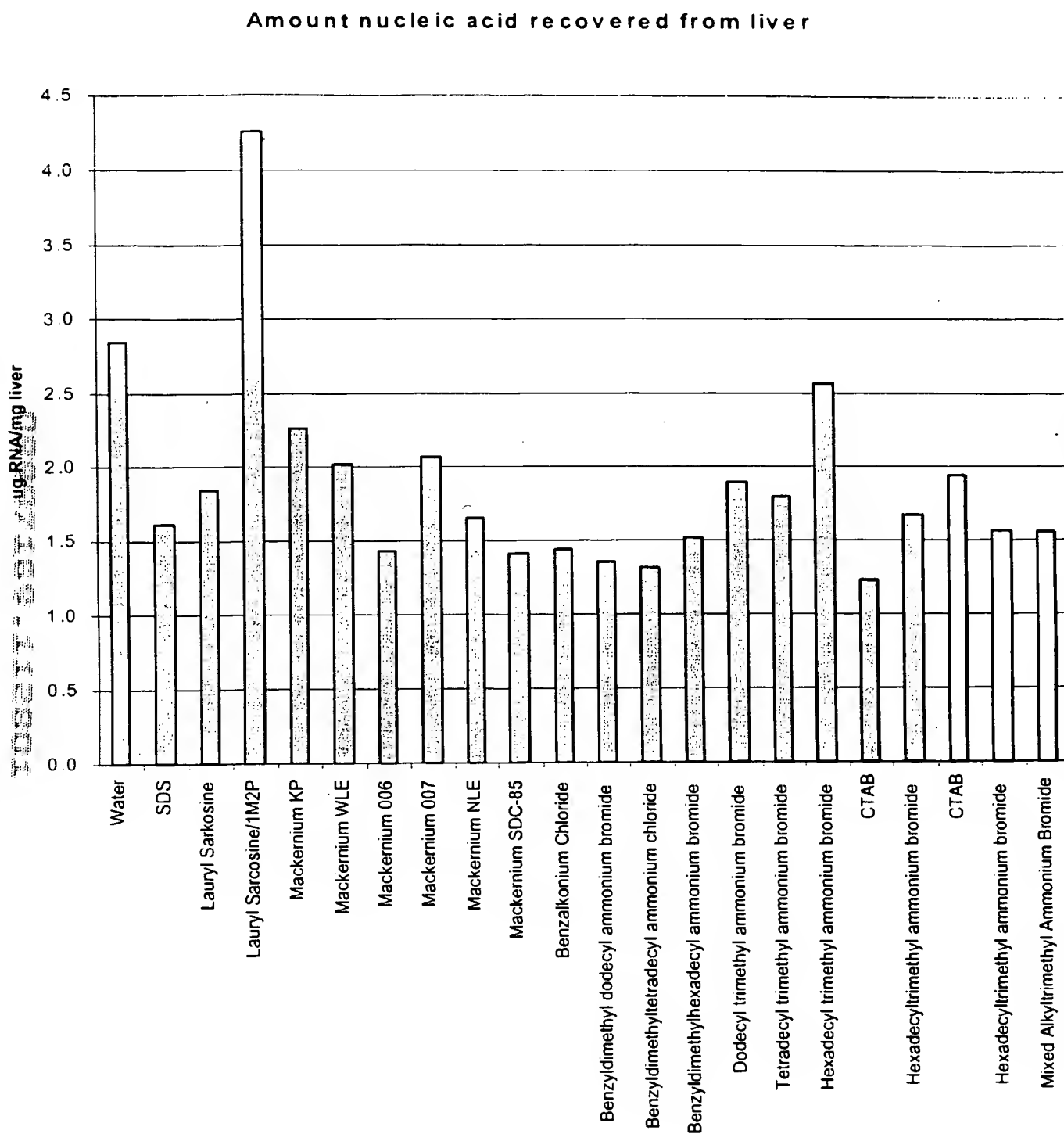


Figure 2C



**Figure 3**

2002-09-20

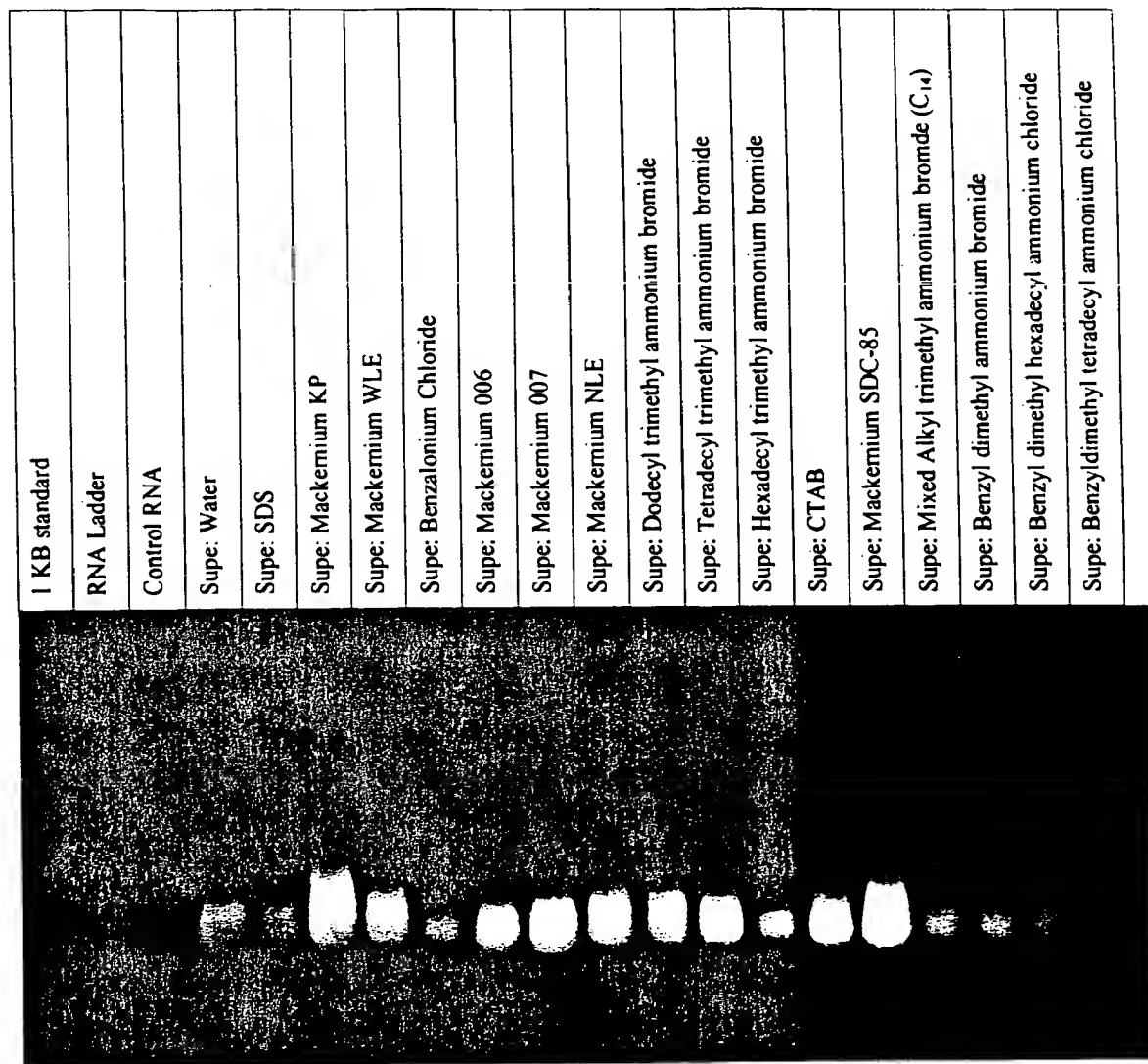
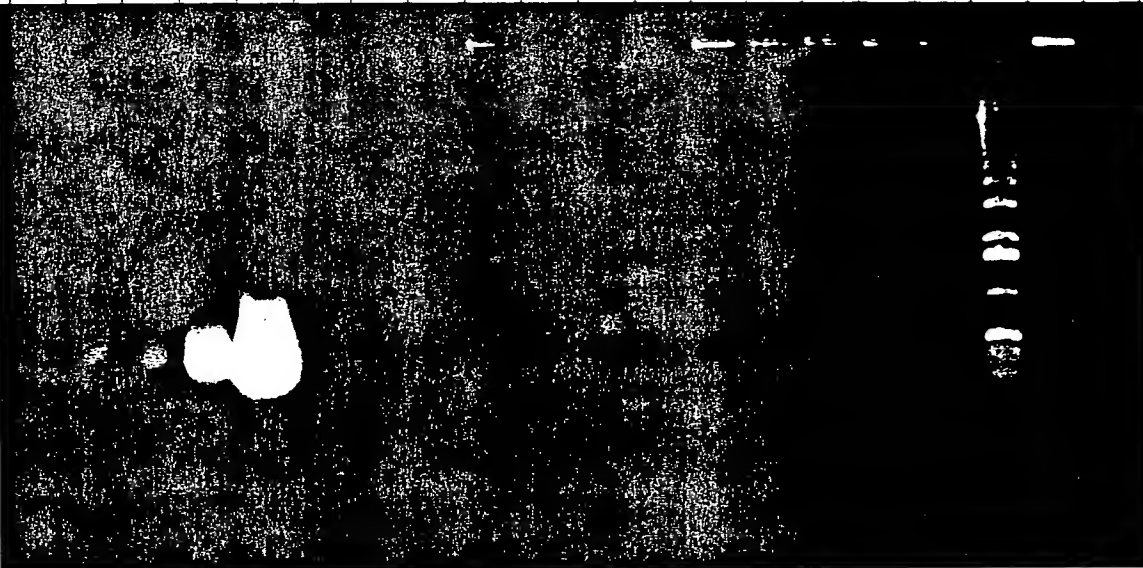


Figure 4



Supe: Hexadecyl trimethyl ammonium bromide
Supe: CTAB
Supe: Hexadecyl trimethyl ammonium bromide
Supe: Lauryl sarcosine
Supe: Lauryl sarcosine/1-methyl 2-pyrrolidone
Pellet: Water
Pellet: SDS
Pellet: Mackernium KP
Pellet: Mackernium WLE
Pellet: Benzalonium Chloride
Pellet: Mackernium 006
Pellet: Mackernium 007
Pellet: Mackernium NLE
Pellet: Dodecyl trimethyl ammonium bromide
Pellet: Tetradecyl trimethyl ammonium bromide
Pellet: Hexadecyl trimethyl ammonium bromide
Pellet: CTAB
1 KB standard
RNA Ladder
Control RNA

Figure 4 (cont.)

Amount nucleic acid released from liver  
2 mg/mL Proteinase K 45°C 20 minutes plus

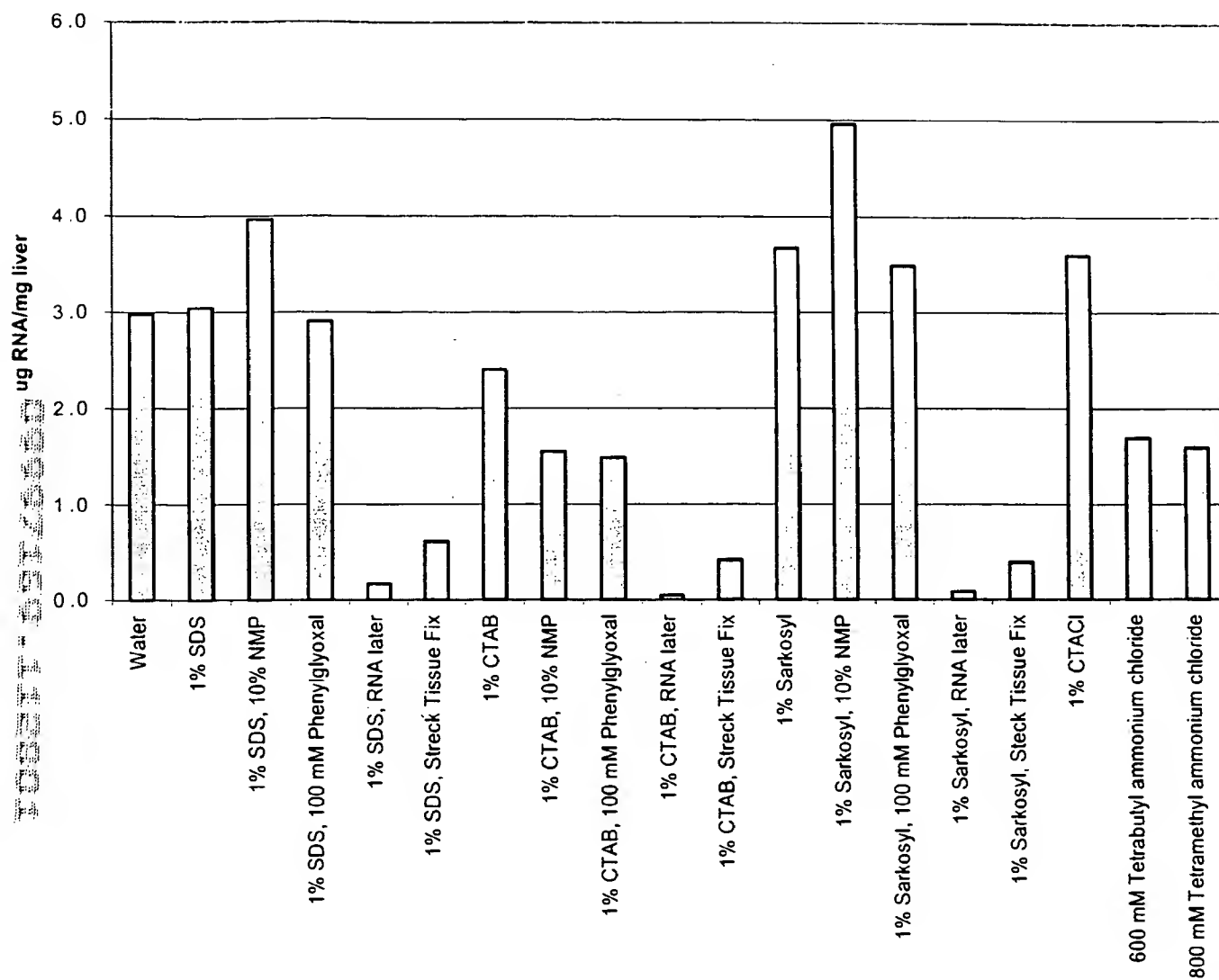



Figure 5



1KB DNA Standard	
RNA Ladder	
Human RNA control	
	No detergent
	1% SDS
10% 1 Methyl 2-pyrrolidinone	1% SDS
100 mM phenylglyoxal	1% SDS
RNA Later	1% SDS
Streck Tissue Fixative	1% SDS
	1% CTAB
10% 1 Methyl 2-pyrrolidinone	1% CTAB
100 mM phenylglyoxal	1% CTAB
RNA Later	1% CTAB
Streck Tissue Fixative	1% CTAB
	1% Sarkosyl
10% 1 Methyl 2-pyrrolidinone	1% Sarkosyl
100 mM phenylglyoxal	1% Sarkosyl
RNA Later	1% Sarkosyl
Streck Tissue Fixative	1% Sarkosyl
	1% CTACI
600 mM tetrabutyl ammonium	No detergent
800 mM tetramethyl	No detergent

Figure 6



# Release of OD260 from Liver 1 mg Proteinase K, 45oC 30 minutes

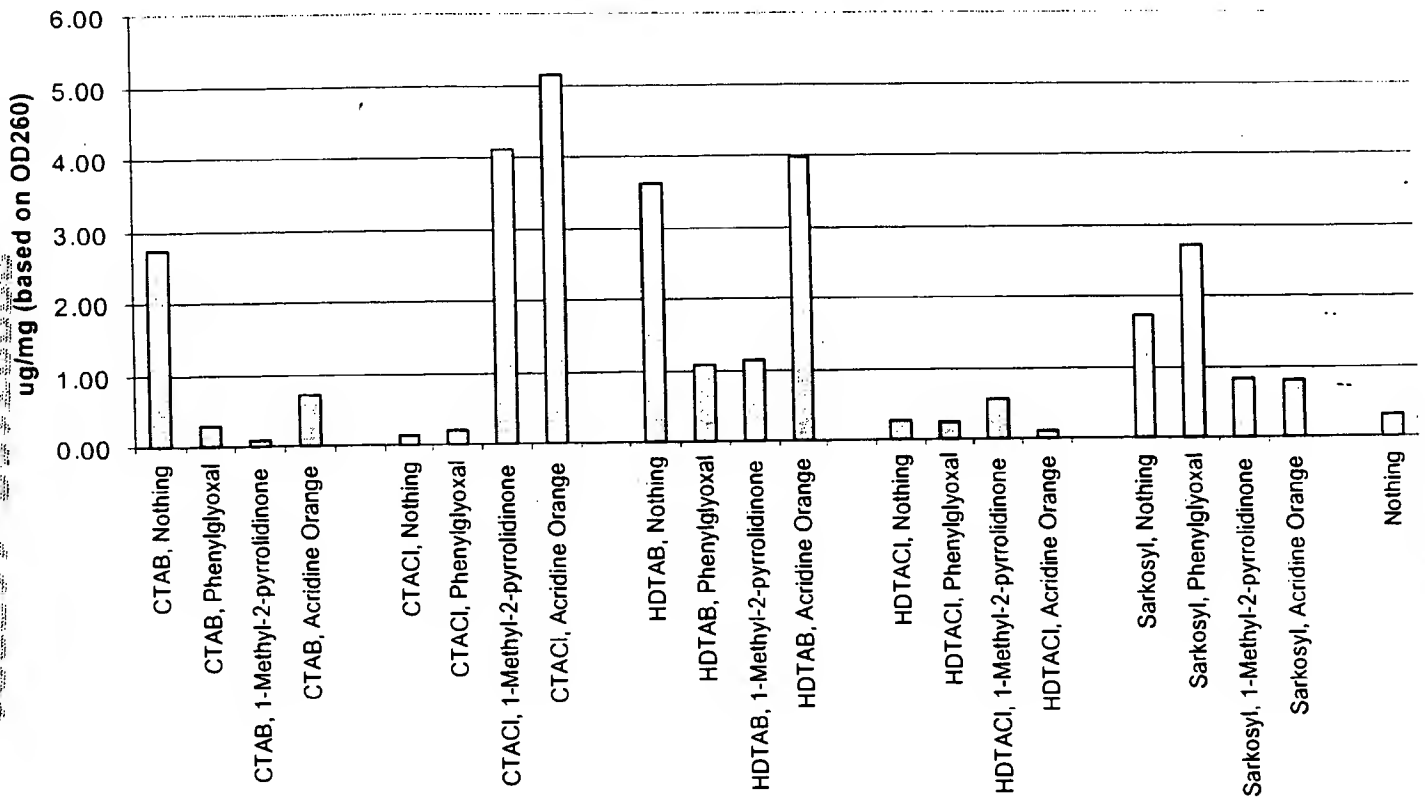


Figure 7

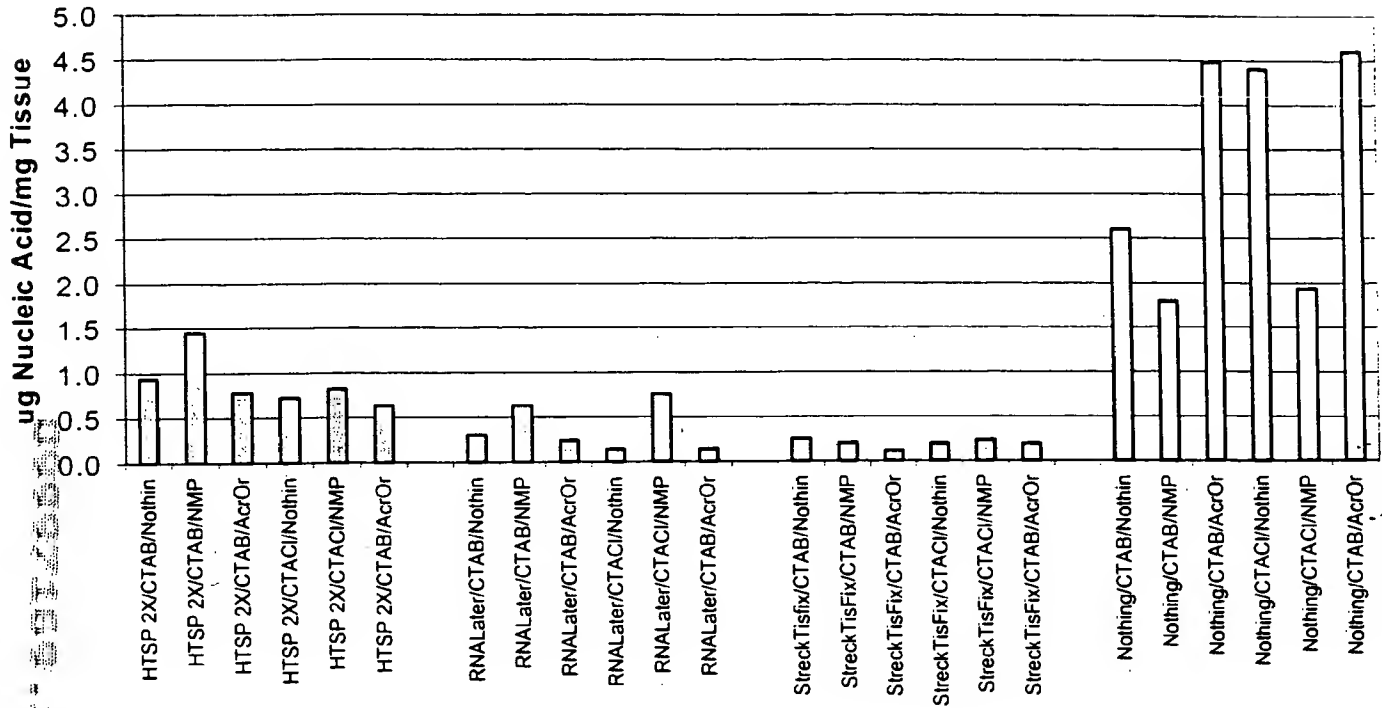
700277-6916530

None	Cetyltrimethylammonium bromide	
phenylglyoxal	Cetyltrimethylammonium bromide	
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium bromide	
Acridine Orange	Cetyltrimethylammonium bromide	
None	Cetyltrimethylammonium chloride	
phenylglyoxal	Cetyltrimethylammonium chloride	
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium chloride	
Acridine Orange	Cetyltrimethylammonium chloride	
None	Hexadecyltrimethylammonium bromide	
phenylglyoxal	Hexadecyltrimethylammonium bromide	
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium bromide	
Acridine Orange	Hexadecyltrimethylammonium bromide	
None	Hexadecyltrimethylammonium chloride	
phenylglyoxal	Hexadecyltrimethylammonium chloride	
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium chloride	
Acridine Orange	Hexadecyltrimethylammonium chloride	
None	Sarkosyl	
phenylglyoxal	Sarkosyl	
1-methyl-2-pyrrolidinone	Sarkosyl	
Acridine Orange	Sarkosyl	
	No detergent	



Figure 8

# **Effect of Tissue Presoaking** **1 mg Proteinase K, 45°C 30 minutes**



**Figure 9**

00007159-42004

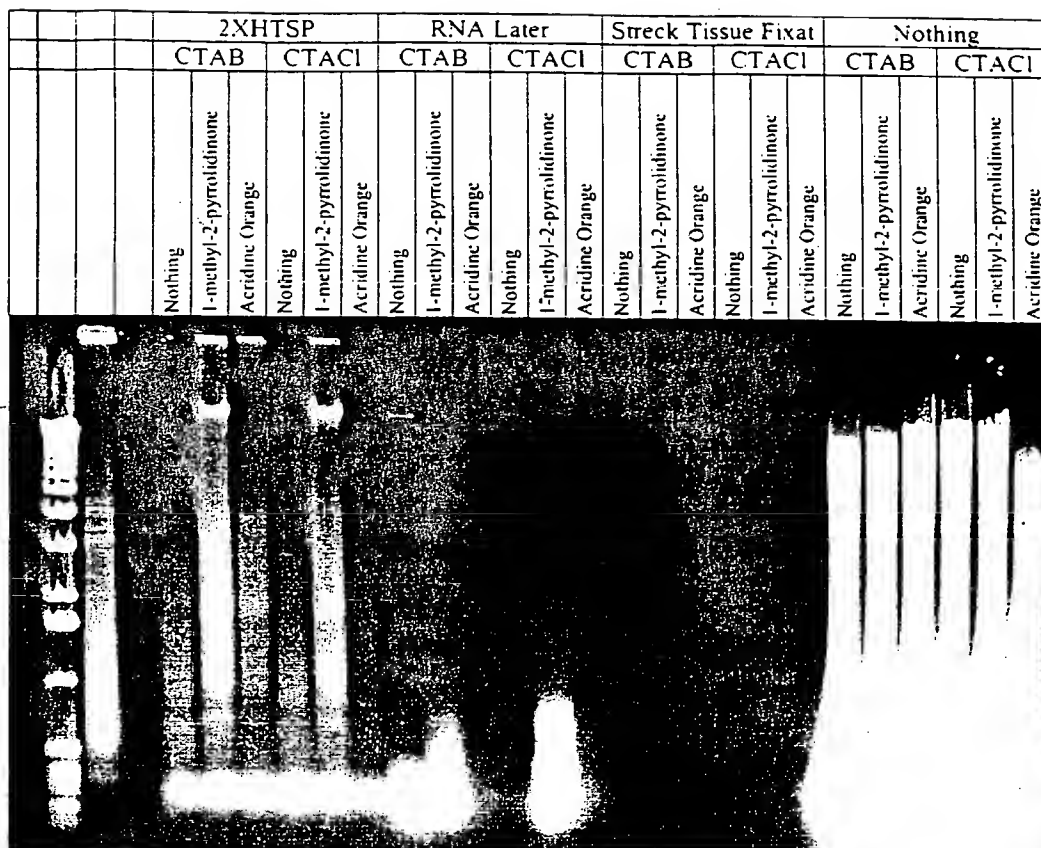


Figure 10

1% CTAB						1% CTACl						1% SDS					
5 mM Aurintricarboxylic Acid						5 mM Aurintricarboxylic Acid						5 mM Aurintricarboxylic Acid					
2 mM Aurintricarboxylic Acid						2 mM Aurintricarboxylic Acid						2 mM Aurintricarboxylic Acid					
1 mM Aurintricarboxylic Acid						1 mM Aurintricarboxylic Acid						1 mM Aurintricarboxylic Acid					
0.5 mM Aurintricarboxylic Acid						0.5 mM Aurintricarboxylic Acid						0.5 mM Aurintricarboxylic Acid					
0.2 mM Aurintricarboxylic Acid						0.2 mM Aurintricarboxylic Acid						0.2 mM Aurintricarboxylic Acid					
0.1 mM Aurintricarboxylic Acid						0.1 mM Aurintricarboxylic Acid						0.1 mM Aurintricarboxylic Acid					

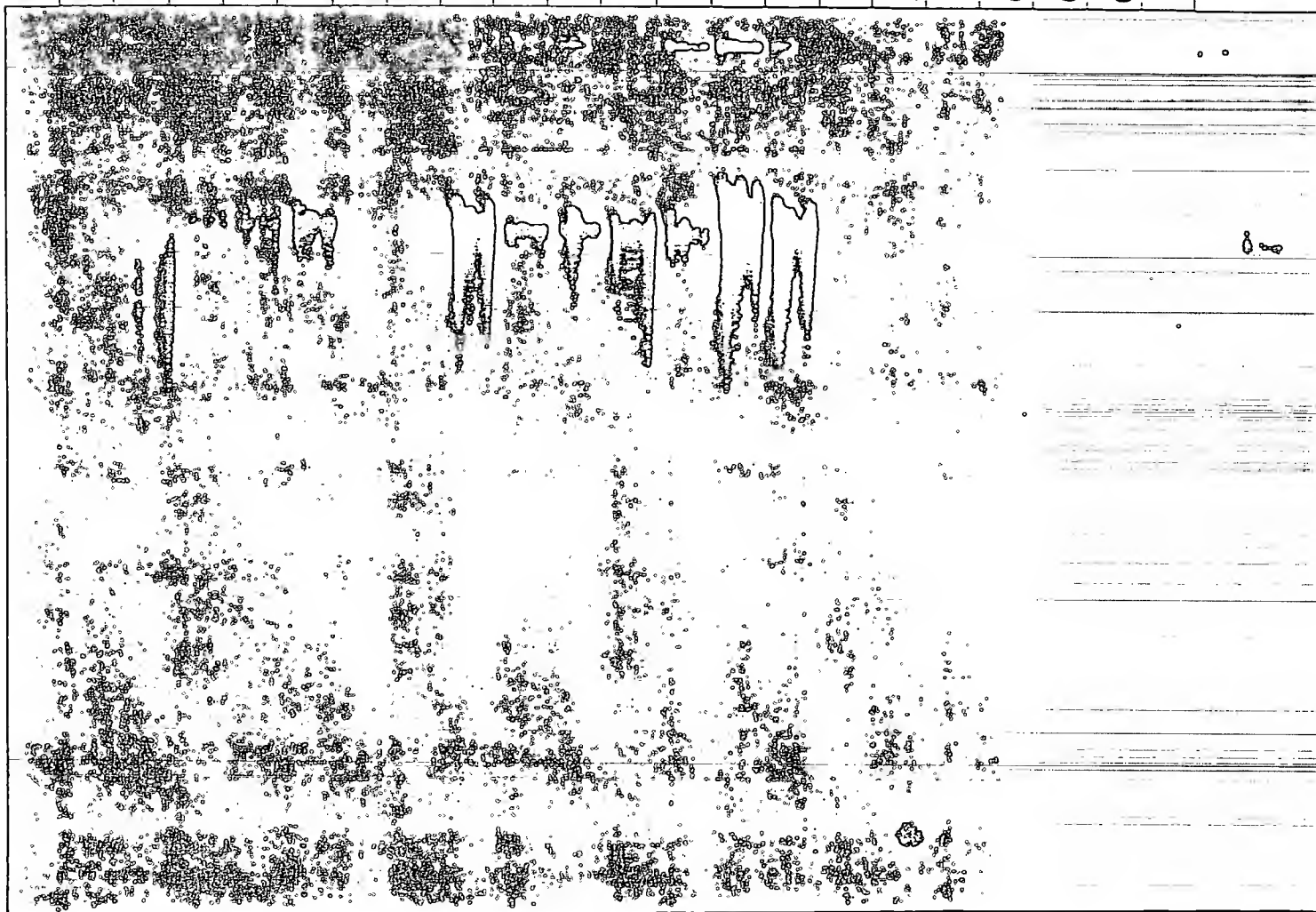


Figure 11

100211-6012660

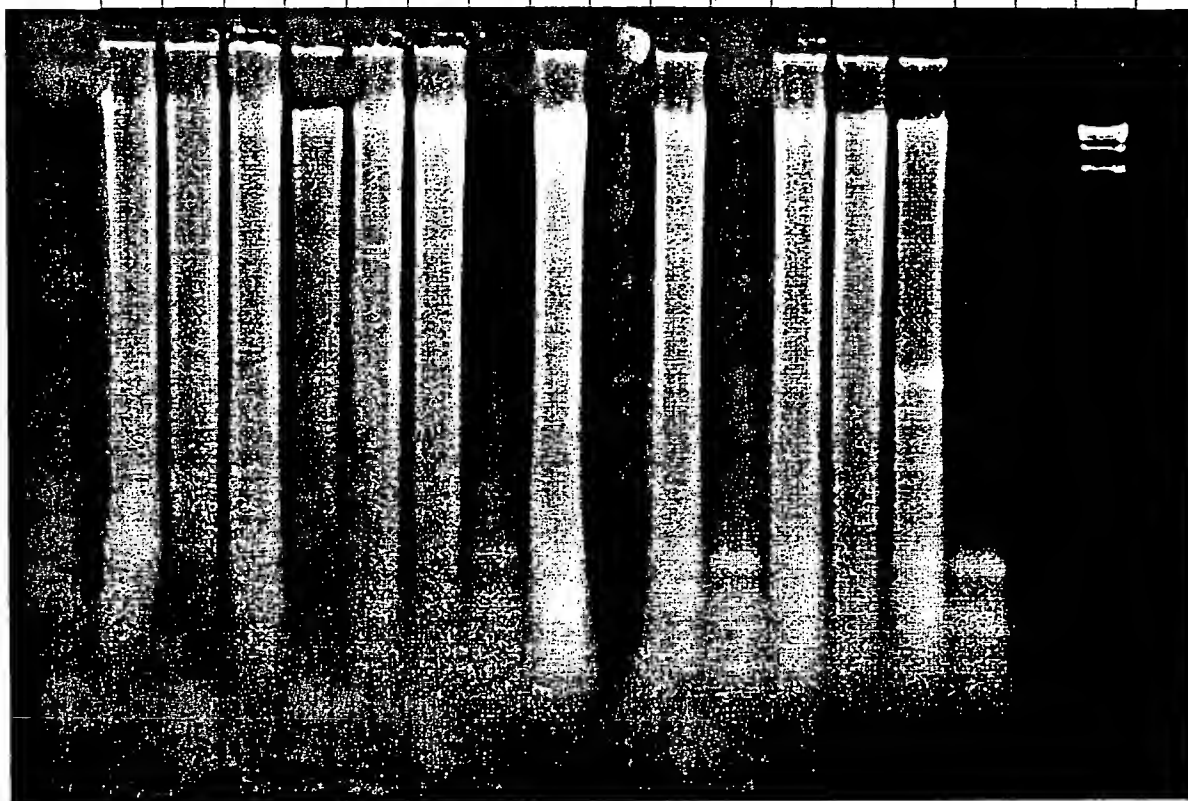


Figure 12

Dodecyltrimethylammonium bromide
Tetradecyltrimethylammonium bromide
Cetyltrimethylammonium bromide
Cetyltrimethylammonium chloride
Hexadecyltrimethylammonium bromide
Hexadecyltrimethylammonium bromide
Mackernium 006 (Polyquaternium 6)
Mackernium KP (Oleakonium chloride)
Mackernium NLE (Quaternium-84)
Mackernium 007 (Polyquaternium-7)
Mackernium Stearalkonium SDC85 Chloride
Benzalkonium chloride
SDS
Nothing

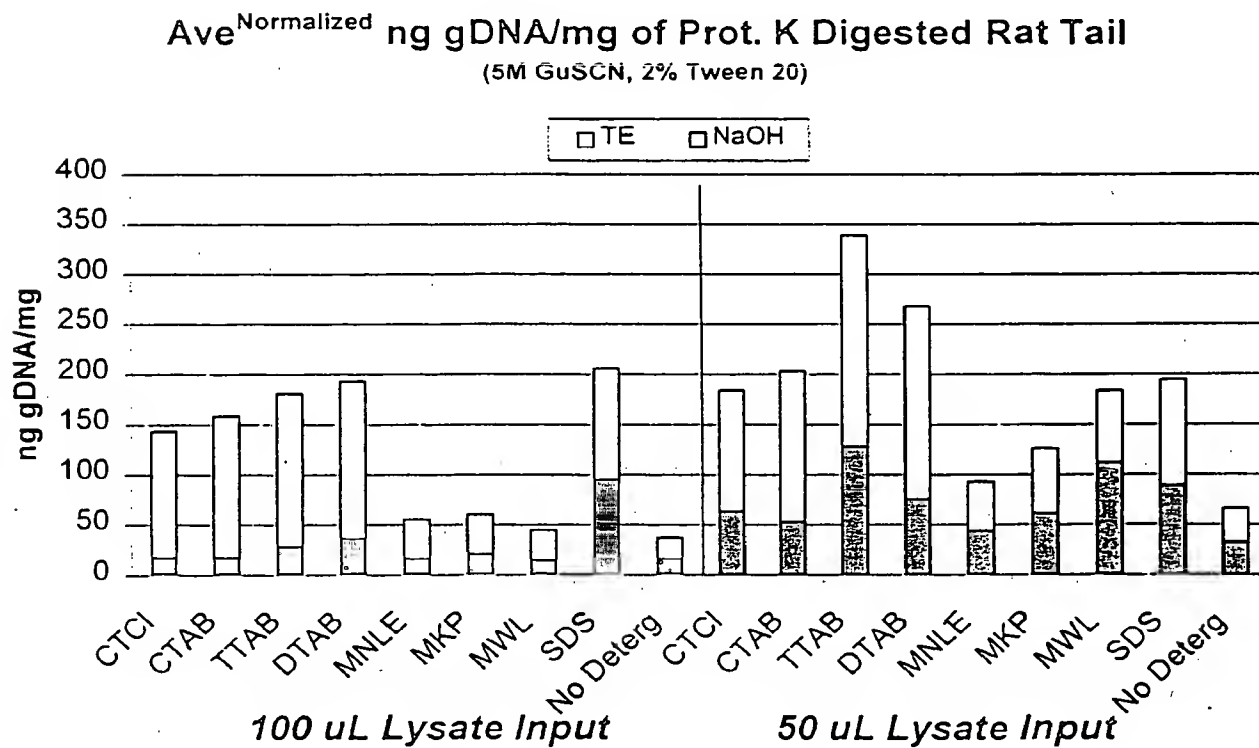


Figure 13

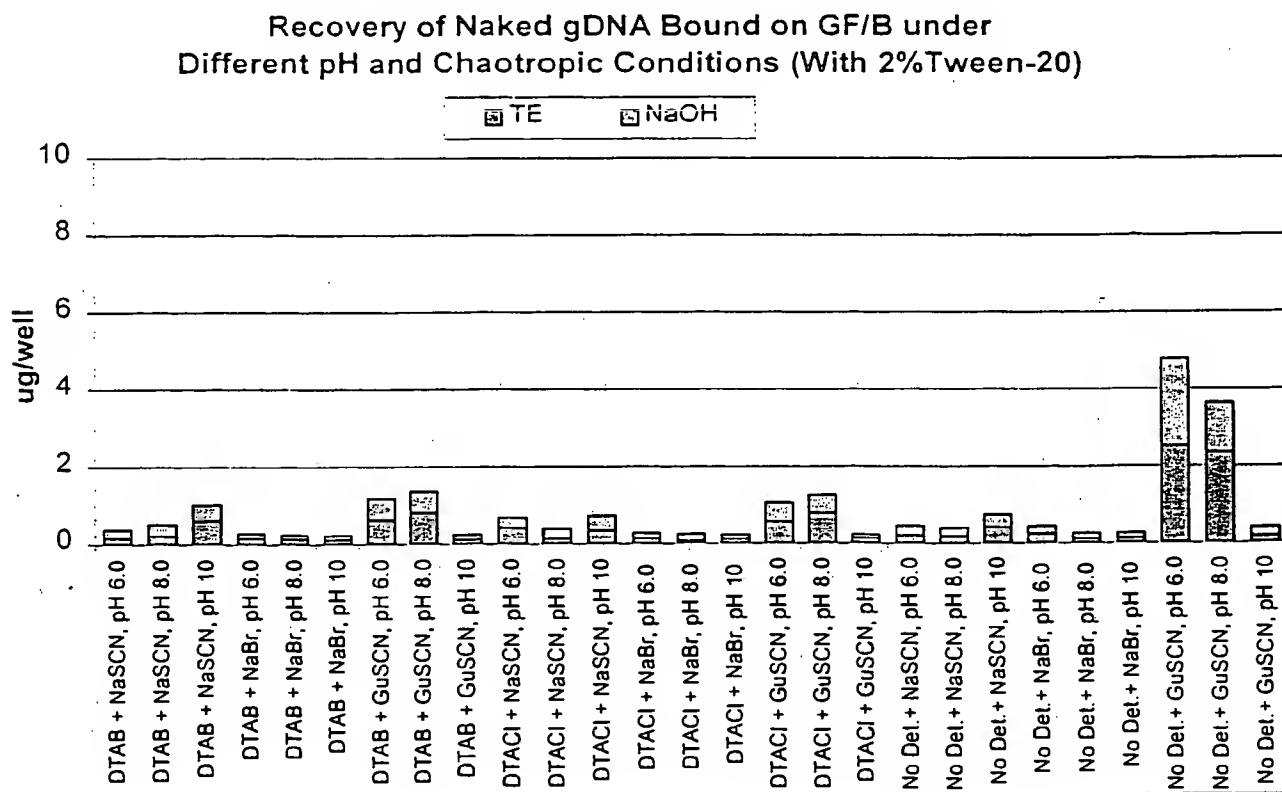


Figure 14



Recovery of Naked gDNA Bound on GF/B under  
Different pH and Chaotropic Conditions (No Tween-20)

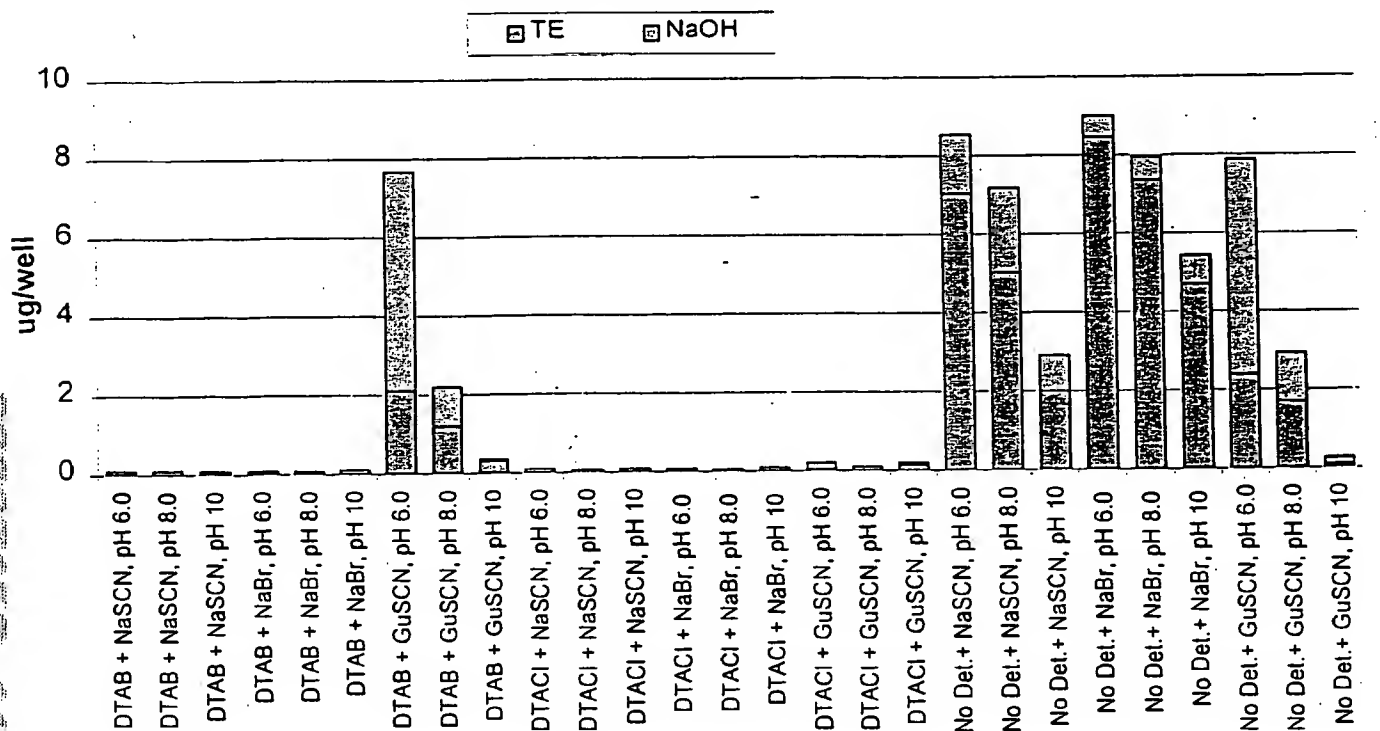


Figure 15

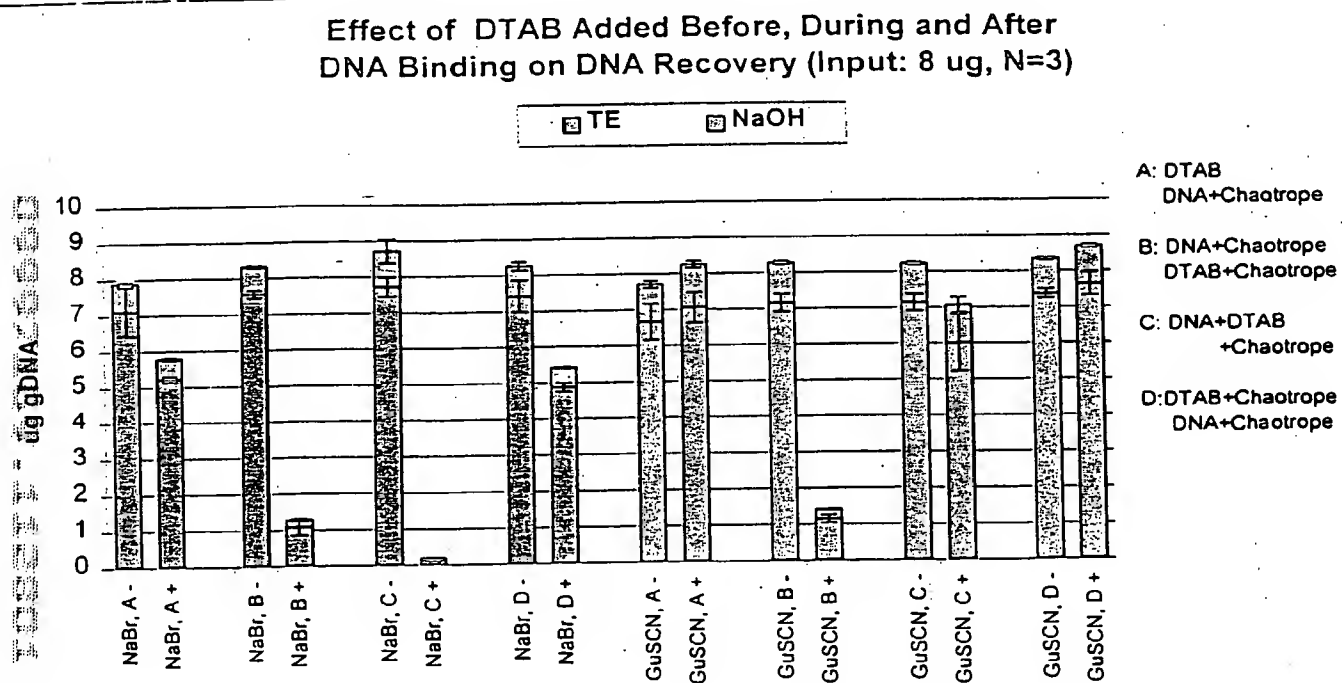


Figure 16

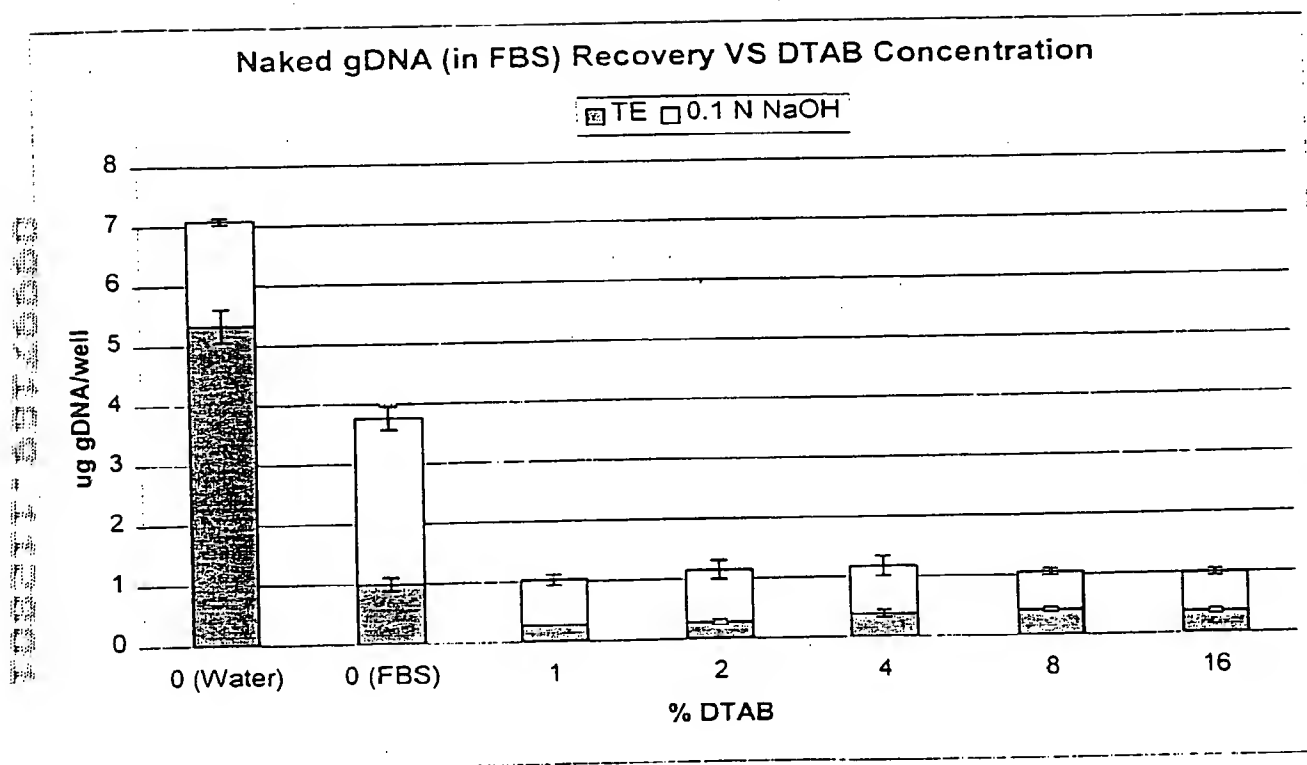


Figure 17

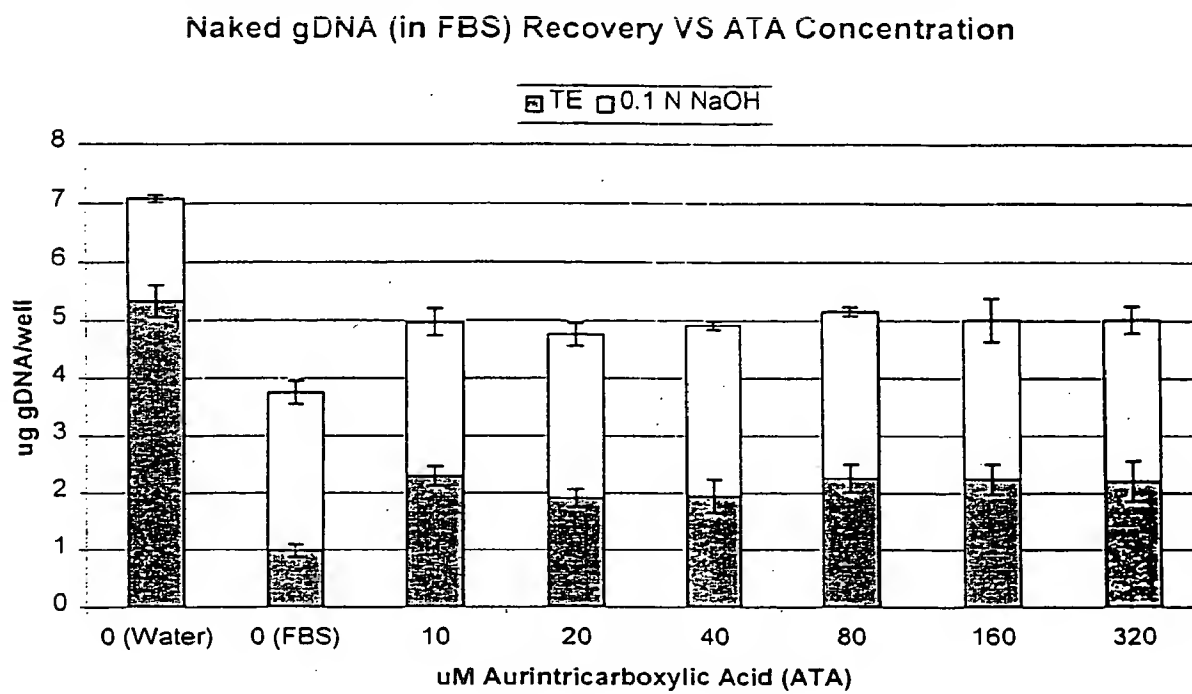


Figure 18

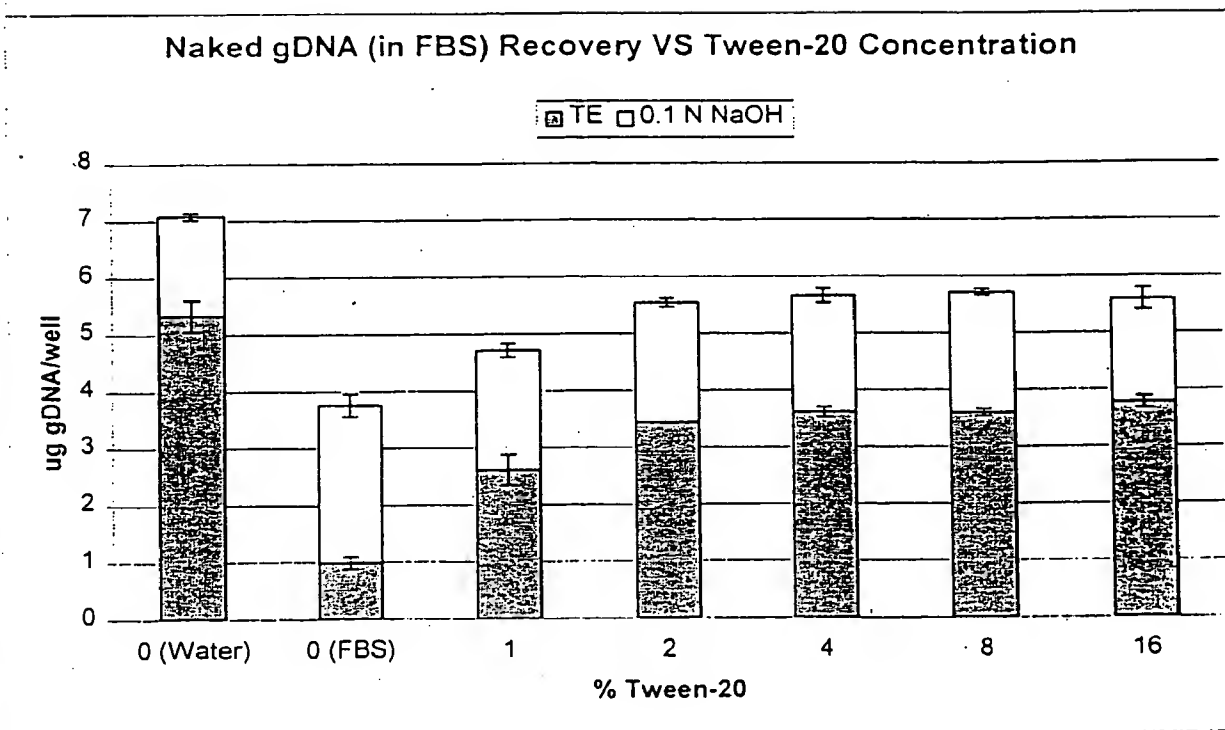


Figure 19

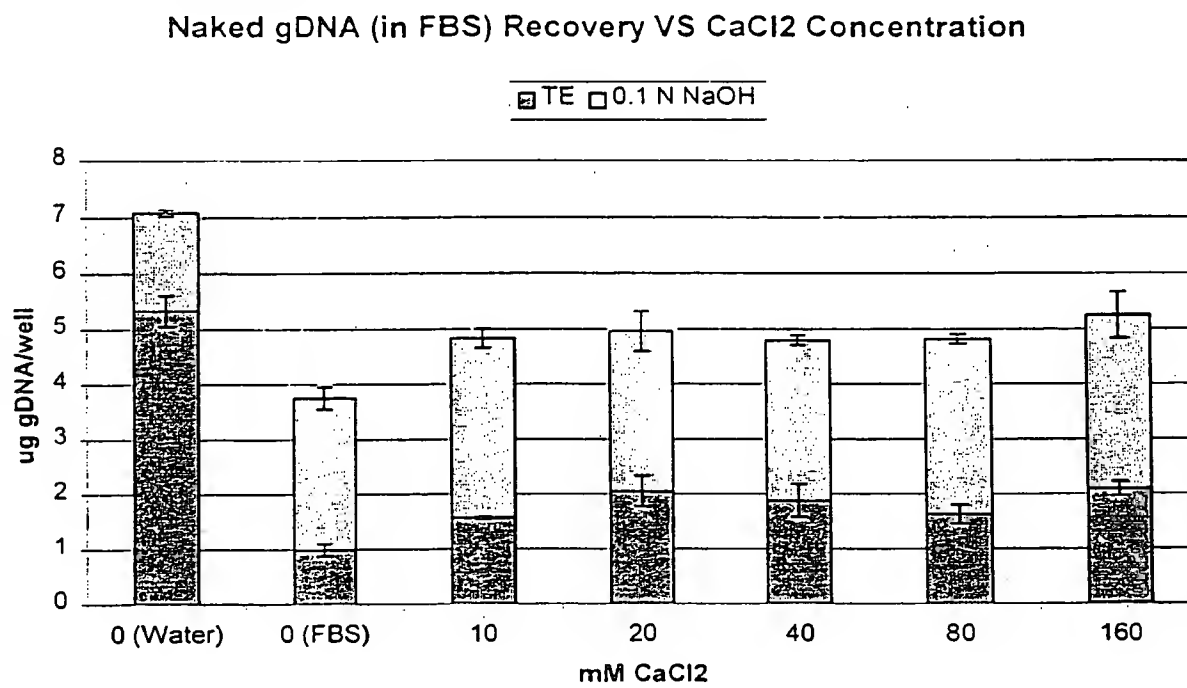


Figure 20

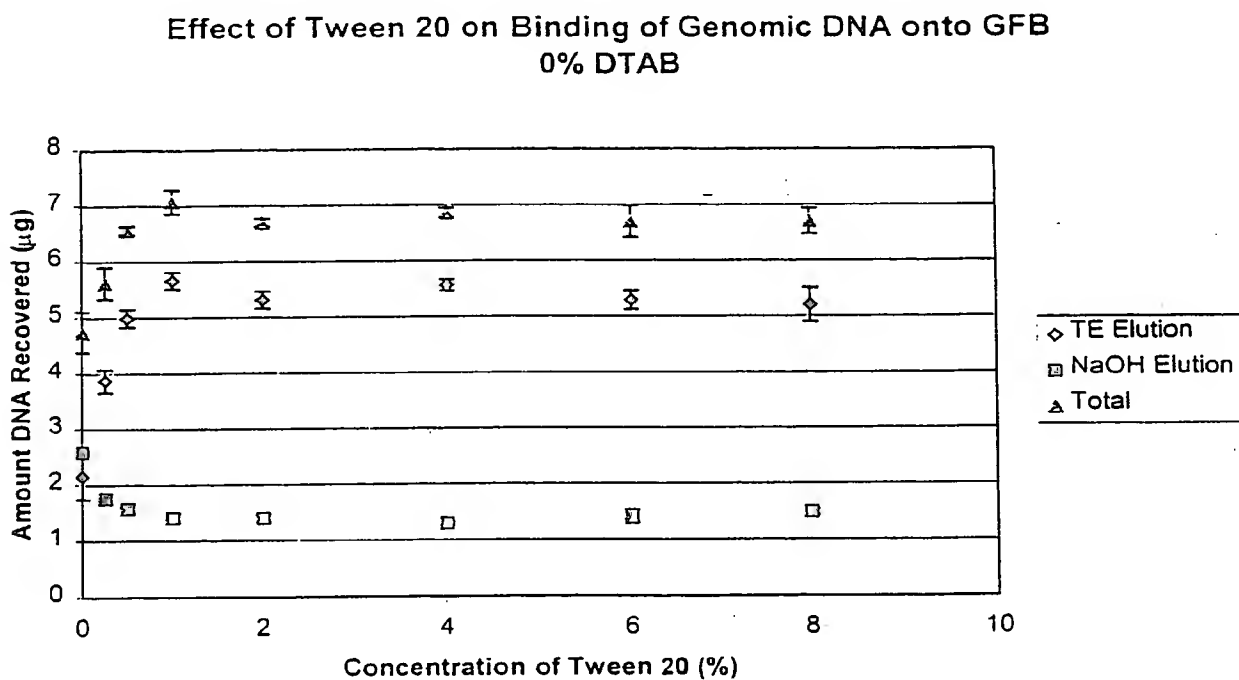


Figure 21

Effect of Tween 20 on Binding of Genomic DNA onto GFB  
1% DTAB

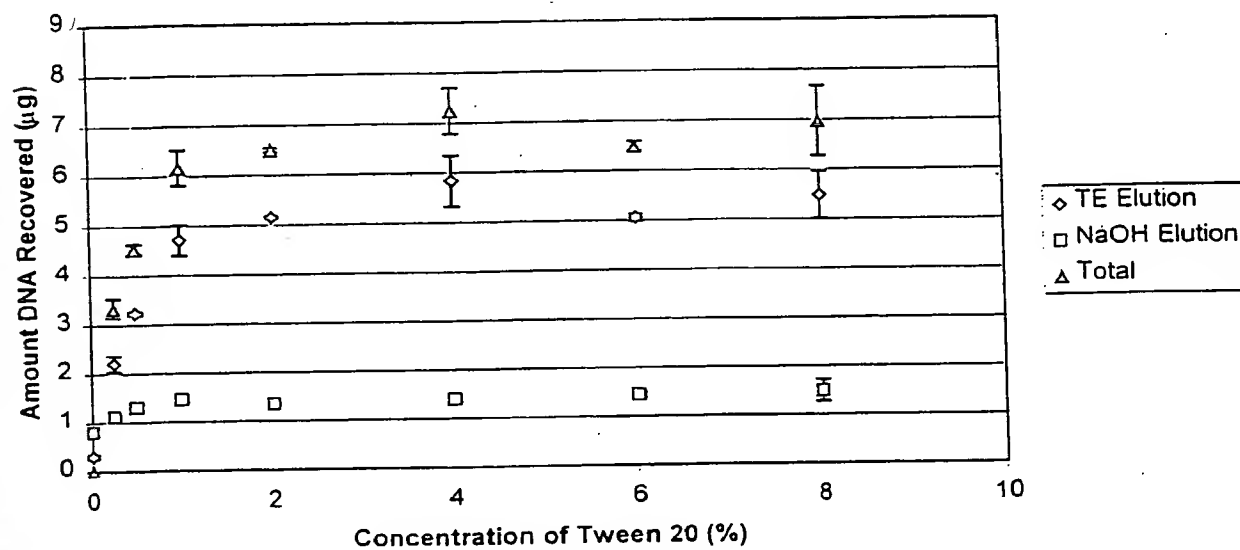


Figure 22



# Effect of Tween 20 on Binding of Genomic DNA onto GFB 4% DTAB

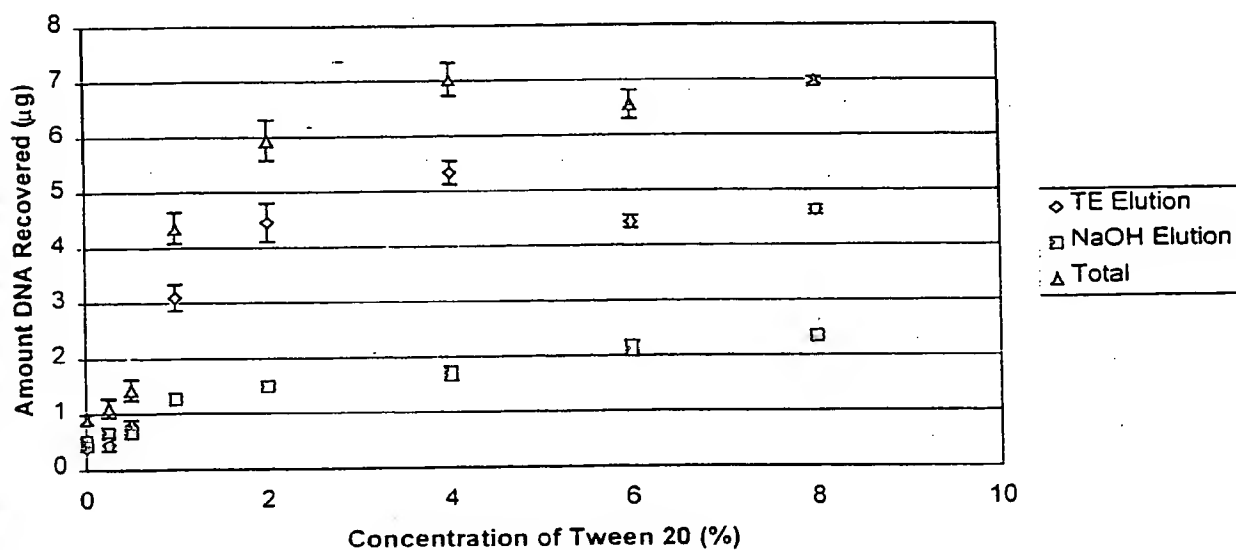


Figure 23

Effect of Tween 20 on Binding Genomic DNA onto GFB  
Total

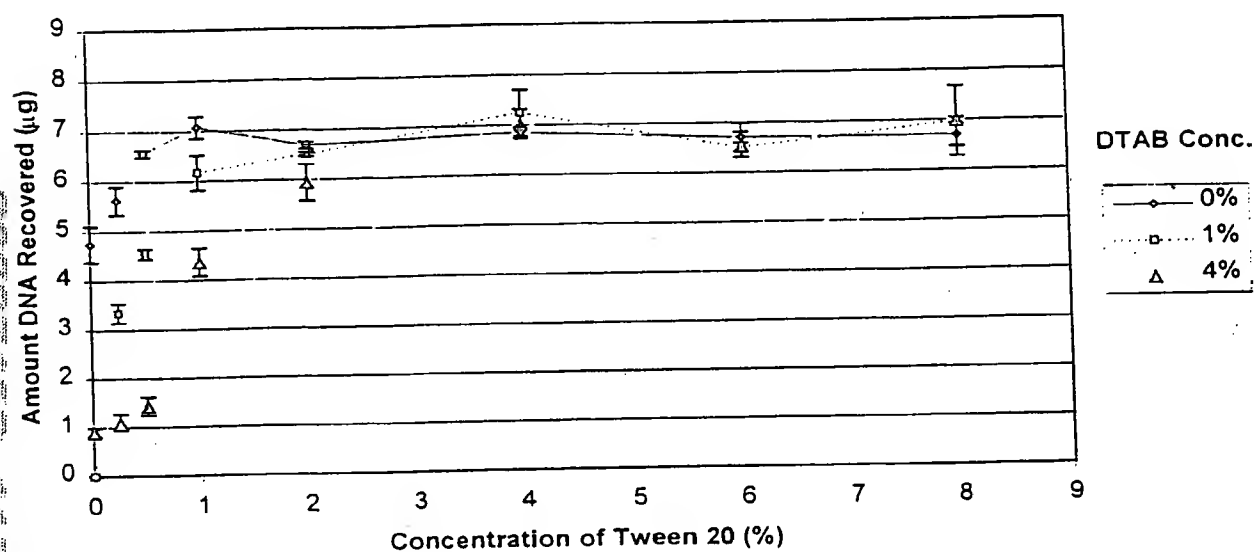


Figure 24

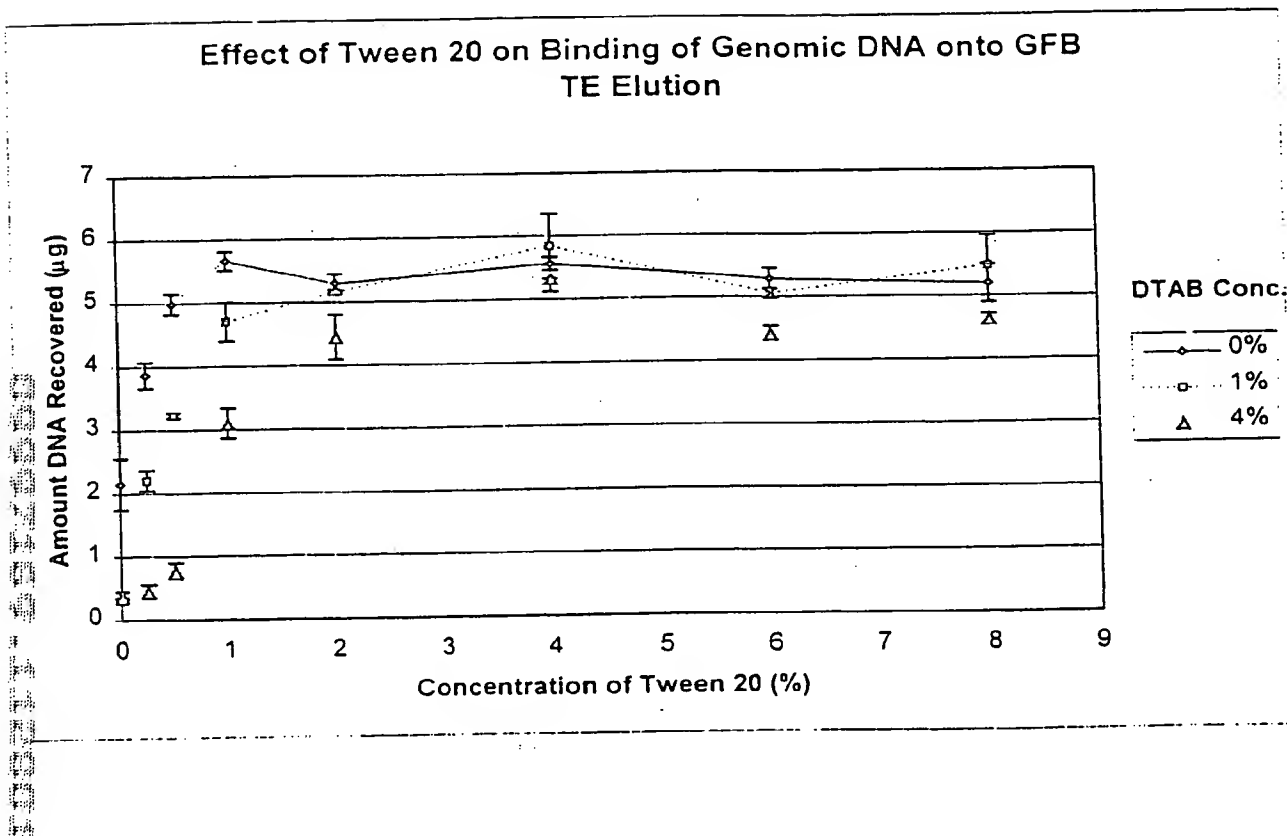


Figure 25

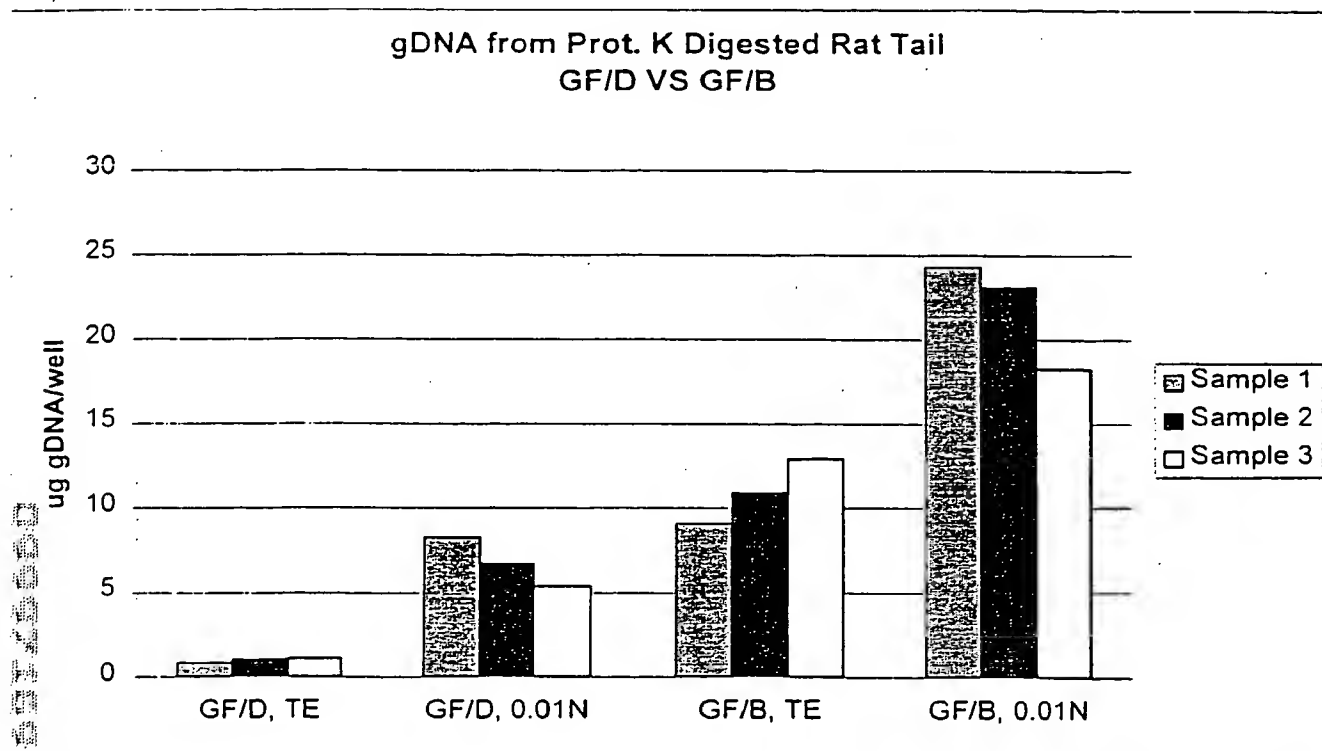


Figure 26

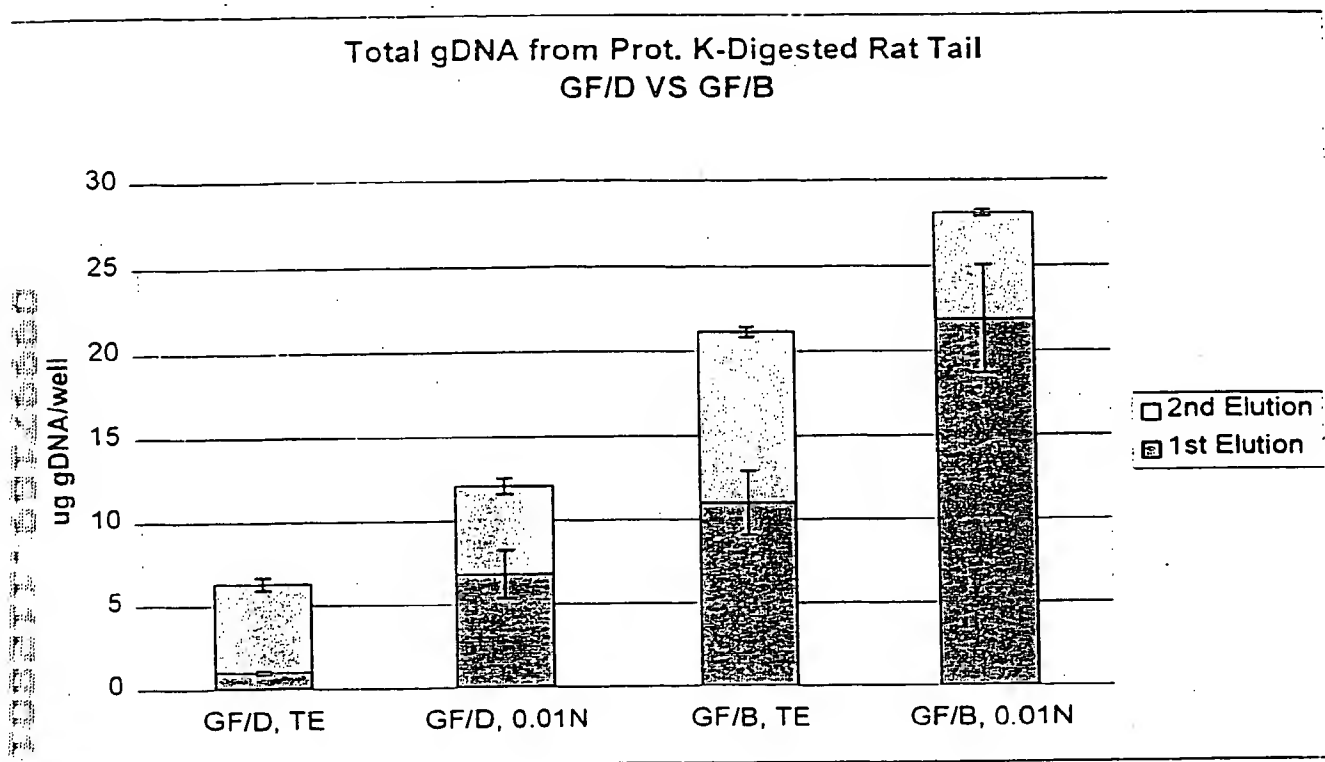
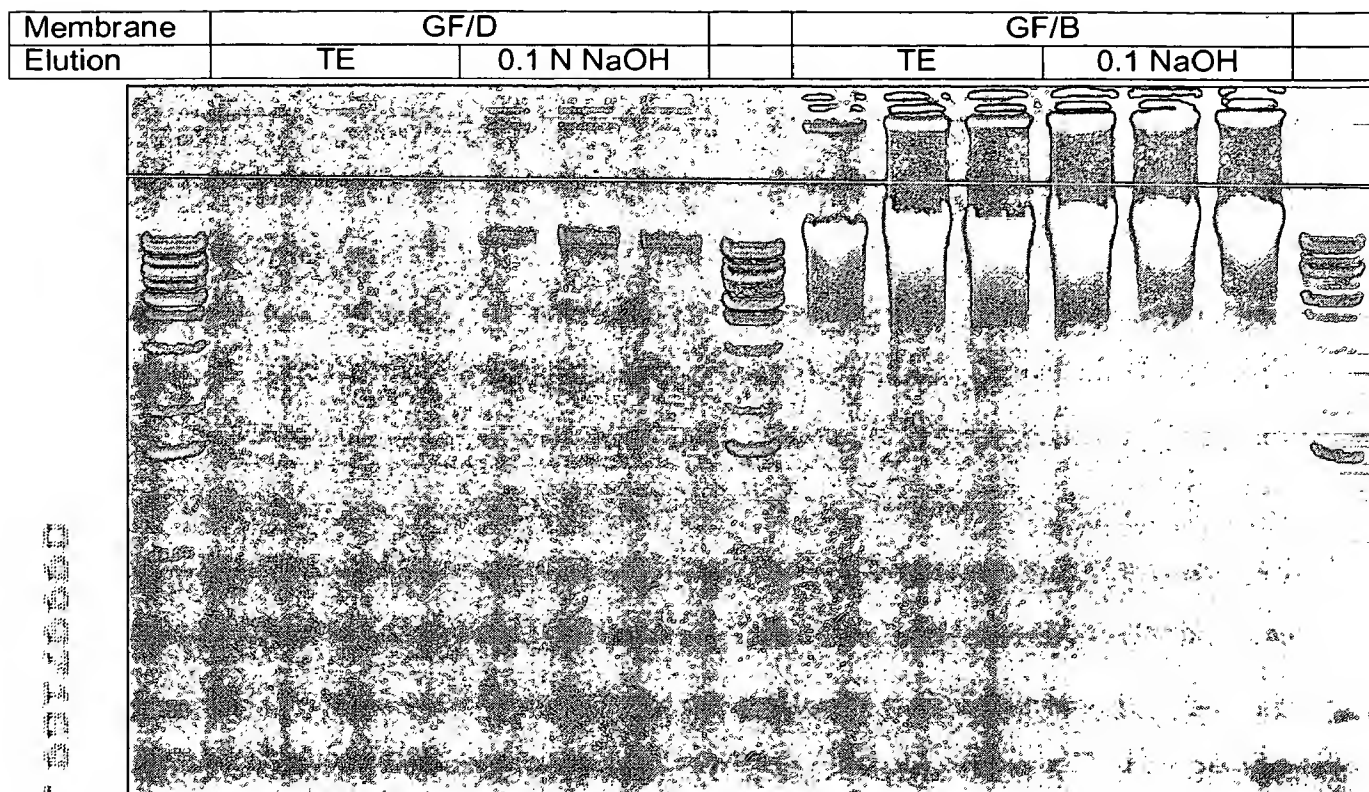


Figure 27



Genomic DNA from 50 mg rat tail sections digested with 1 mg of Prot. K & 1% DTAB and bound onto GF/B and GF/D membranes under 3.75 M GuSCN and 4.5 % Tween 20. The gDNA was finally eluted with of 150 mL of 1X TE and 0.01 N NaOH solutions and 20 mL was used for gel electrophoresis (1 % agarose).

Figure 28

# **gDNA Recovery and Purity from 50 mg Rodent Tissues (3 GF/B Layers)**

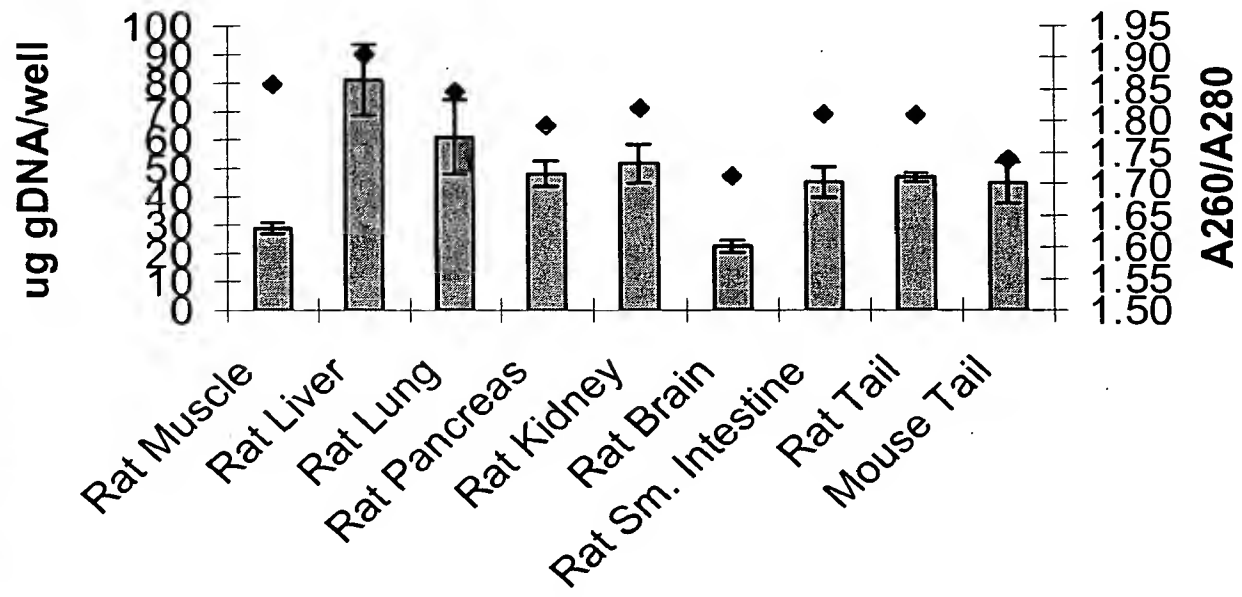


Figure 29

# gDNA from 50 mg Rat Tissues

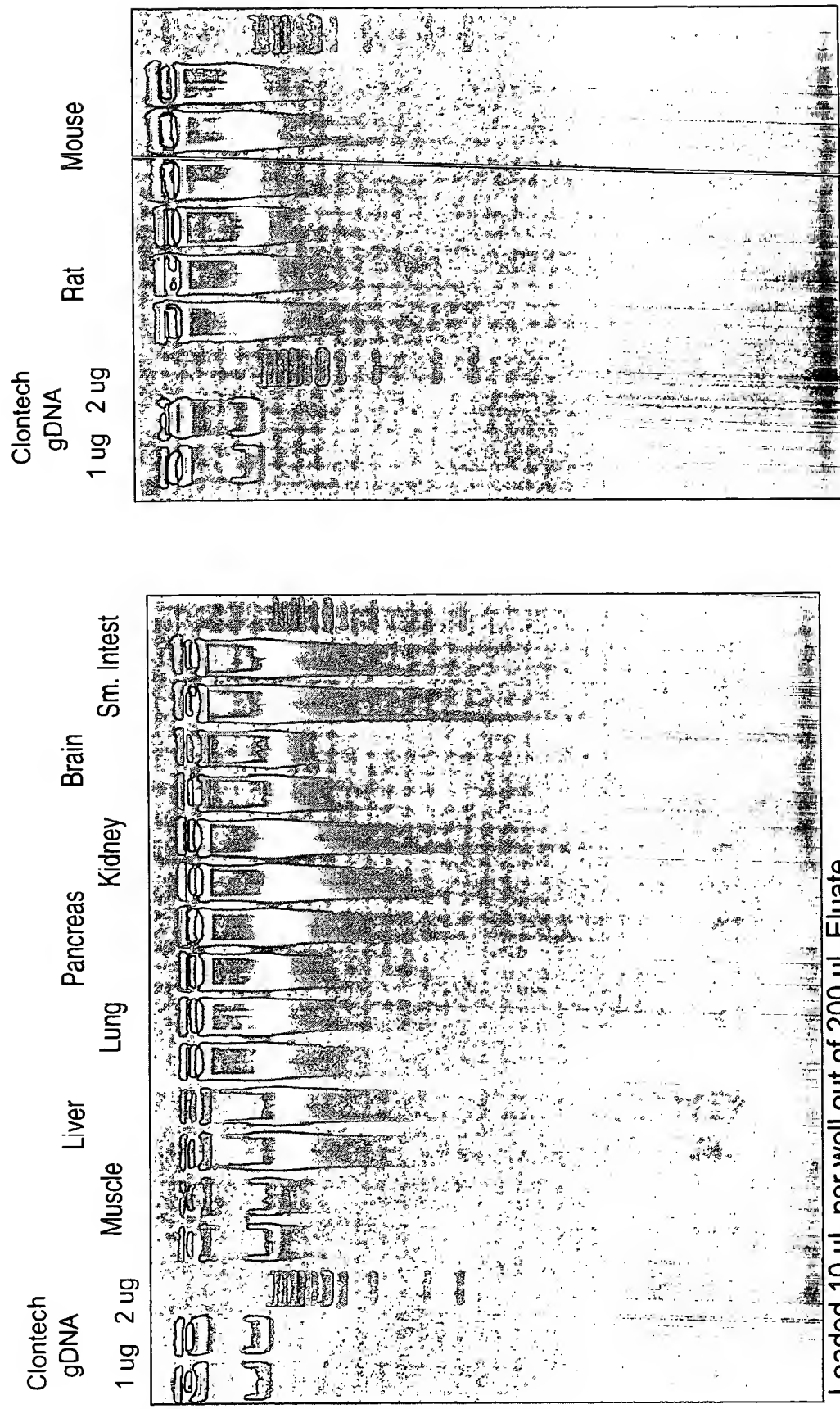


Figure 30